Contents of Aquaculture, Volume 101

VOL. 101 NOS. 1/2	1 FEBRUARY 1992
Diseases, Parasites and Predators	
Longevity of Edwardsiella ictaluri in the organs of experimentally in Ictalurus punctatus	nfected channel catfish,
T.N. Mqolomba and J.A. Plumb (Auburn, AL, USA)	
Husbandry and Management	
Experimental tank cultivation of Gracilaria chilensis in central Chil	e
R. Ugarte and B. Santelices (Santiago, Chile)	
The biology of snakehead, <i>Channa obscura</i> (Gunther), in a Nigeria monoculture	n pond under
R. Victor (Al Khod, Oman) and B.O. Akpocha (Benin City, Ni	
Growth and survival of <i>Penaeus monodon</i> juveniles fed a diet lacking a modified extensive culture system	
A.T. Triño, V.D. Peñaflorida and E.C. Bolivar (Iloilo, Philippin	
Combined intensive-extensive (CIE) pond system. A: inorganic ni	
S. Diab, M. Kochba (Haifa, Israel), D. Mires (Ashrate, Israel) a	
(Haifa, Israel)	- 4h - White Co-
Respiration and energetics in mussels (Mytilus edulis L.) cultured i A.A. Sukhotin (Leningrad, USSR)	
Growth and population dynamics in mussels (<i>Mytilus edulis</i> L.) cu	
A.A. Sukhotin and E.E. Kulakowski (Leningrad, USSR)	
Nutrition	
The composition of Zostera capricorni seeds: a seasonal natural food esculentus Haswell (Penaeidae: Decapoda)	
W. Dall, D.M. Smith and L.E. Moore (Cleveland, Qld., Australi	
Supplemental effects of methionine-enriched plastein in Penaeus jap	
S. Teshima, A. Kanazawa and S. Koshio (Kagoshima, Japan)	
Requirements for sulfur amino acids and utilization of D-methionin (Oncorhynchus mykiss)	
KI. Kim (Cheju, South Korea), T.B. Kayes and C.H. Amundso	
Essential fatty acid nutrition of larval striped bass (Morone saxatilis saxatilis × M. chrysops)	
H. Tuncer and R.M. Harrell (Cambridge, MD, USA)	
Pigmentation of rainbow trout with astaxanthin and canthaxanthin saltwater	
H.K. No and T. Storebakken (Sunndalsøra, Norway)	
Feeding behaviour and effect of feeding regime on growth of Atlanti	
E.H. Jørgensen and M. Jobling (Tromsø, Norway)	
Effects of winter temperature and feeding regime on the rate of early salmon (Salmo salar) male parr	
C M Herbinger and G W Friars (St Andrews N R Canada)	147

Effects of dietary conditions on the exocrine pancreas of the sea bass, Dicentrarchus labrax (Teleostei)	L.
C. Beccaria, J.P. Diaz and R. Connes (Montpellier, France)	163
Physiology and Endocrinology	
Assessment of sperm concentration and motility in turbot (Scophthalmus maximus) M. Suquet, M.H. Omnes, Y. Normant and C. Fauvel (Plouzané, France)	177
Short Communication Induced spawning of the scallop, Pecten maximus, in the sea	
D. Minchin (Dublin, Ireland)	187
Guide for Authors	191
VOL. 101 NOS. 3/4 15 FEBRUAR	Y 1992
Diseases, Parasites and Predators Protective effect of schizophyllan and scleroglucan against Streptococcus sp. infection in yellowtail (Seriola quinqueradiata)	
H. Matsuyama, R.E.P. Mangindaan and T. Yano (Fukuoka, Japan)	197
Development of an in vitro primary cell culture system from the penaeid shrimp, <i>Penaeus stylirostris</i> and <i>Penaeus vannamei</i>	
R.A. Luedeman and D.V. Lightner (Tucson, AZ, USA)	205
Husbandry and Management	
Substitution of organic manure for pelleted feed in tilapia production B.W. Green (Auburn, AL, USA)	213
Nutrition	
Effect of algal diets on the fatty acid composition of brine shrimp, Artemia sp., cysts	
J.C. Navarro and F. Amat (Castellon, Spain)	
The relative enhancement of <i>Penaeus vannamei</i> growth by selected fractions of shrimp pond water	
S.M. Moss, G.D. Pruder, K.M. Leber and J.A. Wyban (Honolulu, HI, USA)	229
Utilization of different carbohydrates at different dietary protein levels in grass prawn, Penaeus monodon, reared in seawater	
SY. Shiau and CY. Peng (Keelung, Taiwan)	241
Nutrient profiles of green and decomposed rice-forages and their utilization by juvenile crayfish (<i>Procambarus clarkii</i>)	
W.R. McClain, W.H. Neill and D.M. Gatlin III (College Station, TX, USA)	
Partitioning the contributions of forage-based production system components to weight gain of juvenile crayfish (<i>Procambarus clarkii</i>)	
W.R. McClain, W.H. Neill and D.M. Gatlin III (College Station, TX, USA)	
Dietary protein requirement of the red drum (Sciaenops ocellatus) and relative use of dietar carbohydrate and lipid	У
J.A. Serrano, G.R. Nematipour and D.M. Gatlin III (College Station, TX, USA)	283
Food conversion budget in sea bass, <i>Dicentrarchus labrax</i> , fingerlings under two different	
feeding frequency patterns N. Tsevis, S. Klaoudatos and A. Conides (Elliniko, Greece)	293

Physiology and Endocrinology
A relationship between adult recoveries of chinook salmon (Oncorhynchus tshawytscha) and

lunar phase at time of their release from a hatchery on the Rakaia River, New Zealand C.L. Hopkins (Christchurch, New Zealand)	205
Effects of cortisol and thyroid hormone treatment on the glycogen metabolism of selected	303
tissues of domesticated rainbow trout, Oncorhynchus mykiss	
J.L. Soengas, P. Rey, G. Rozas, M.D. Andrés and M. Aldegunde (Santiago de Compostela,	
	217
Spain)	31/
luteinizing hormone-releasing hormone analog	
CF. Chang, HJ. Hu, HC. Tang and LT. Sun (Keelung, Taiwan)	220
Oocyte maturation and changes in plasma steroid levels in snapper Pagrus (= Chrysophrys)	329
auratus (Sparidae) following treatment with human chorionic gonadotropin	
N.W. Pankhurst and J.F. Carragher (Auckland, New Zealand)	227
Embryonic and larval development of the thick-lipped mullet (<i>Chelon labrosus</i>) under	337
controlled reproduction conditions	
C. Boglione, B. Bertolini, M. Russiello and S. Cataudella (Rome, Italy)	240
Mosquitofish reproduction: effects of photoperiod and nutrition	349
J.J. Cech Jr., R.G. Schwab, W.C. Coles and B.B. Bridges (Davis, CA, USA)	261
The reproductive biology of the tropical rocky oyster <i>Ostrea iridescens</i> (Bivalvia: Ostreidae)	301
on the Pacific coast of Costa Rica	
ML. Fournier (San José, Costa Rica)	371
Technical Papers	
Automated maintenance of dissolved oxygen concentrations in flow-through aquaria	
M.S. Peterson and B.E. Ardahl (Mississippi State, MS, USA)	. 379
The randomness of samples collected by dip-net methods from rainbow trout in tanks	
M.A. Thorburn (Guelph, Ont., Canada)	. 385
Book Reviews	
Trout farming handbook	391
Cyprinid fishes	392
Announcements	.394
Author Index	.395
Contents of Aquaculture, Volume 101	.399

